

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Addease COMMISSIONER FOR PATENTS PO Box 1430 Alexandria, Virginia 22313-1450 www.wopto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/714,730	11/17/2003	King-Hwa Lee	OIC0078US	4654
CAMPBELL STEPHENSON LLP 11401 CENTURY OAKS TERRACE			EXAMINER	
			TANK, ANDREW L	
BLDG. H, SUITE 250 AUSTIN, TX 78758			ART UNIT	PAPER NUMBER
			2175	
			MAIL DATE	DELIVERY MODE
			07/21/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/714,730 LEE ET AL. Office Action Summary Examiner Art Unit ANDREW TANK 2175 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 04 May 2009. 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-8.10-20 and 22-31 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-8,10-20 and 22-31 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (PTO/S5/08)
 Paper No(s)/Mail Date ______.

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

Application/Control Number: 10/714,730 Page 2

Art Unit: 2175

DETAILED ACTION

 The following action is in response to the Request for Continued Examination (RCE) filed under 37 CFR 1.53(d) for the instant application May 4, 2009. Applicants have properly set forth the RCE, which has been entered into the application.
 Accordingly, the amendment submitted May 4, 2009 has been entered and an examination on the merits follows herewith.

 Claims 1, 8, 11, 20, 24 and 25 have been directly amended. Claims 1-8, 10-20, and 22-31 are pending and have been considered below.

Claim Rejections - 35 USC § 112

 Applicant has amended independent claims 1, 8 and 11 to overcome the indefinite claims rejections of 1-8 and 10-19 dated February 3, 2009. The corresponding rejections are withdrawn.

Claim Rejections - 35 USC § 101

4. Applicant has amended independent claims 20 and 24 to overcome the nonstatutory claims rejections of claims 20 and 22-24 dated February 3, 2009. The corresponding claims are withdrawn. Application/Control Number: 10/714,730 Page 3

Art Unit: 2175

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all
obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

 Claims 20 and 22-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over <u>Bookman et al.</u>, (US 5,761,673), previously presented as <u>Bookman</u>.

Claim 20: Bookman discloses a computer-readable medium containing instructions, executable on a computer system, configured to execute a command, represented by a command block, of a business application, and a data structure defining the command block, wherein the command block is inbound to a web server, and the web server is configured to execute on the computer system (col 3 lines 61-62: "Web server environment, containing conventional objects"), the data structure comprising:

an execute element having a path attribute indicating a location of an object manager (col 4 lines 1-2: "Web server executable");

a command element nested within the execute element and having a value attribute indicating a name of the command (col 4 lines 2-3: "Web browser makes an object request from Web server executable"), wherein the command element represents a predefined query (col 4 lines 5-6: "a table in database, based on the object request URL"); and

one or more argument elements nested within the command element, each argument element having a name attribute indicating a name of an argument for the named

Art Unit: 2175

command (col 3 lines 64-65: "each object has an attribute associated with it"), the one or more argument elements being from a set of argument elements comprising an argument element configured to indicate a response markup format (col 4 line 7: "an HTML file"), an argument element to configured to indicate whether the response should include user interface elements (col 4 line 7: "an HTML file"), and an arguments element configured to identify a transform to be applied to output (col 4 lines 9-12: "CGI script"). Bookman further discloses that the web server environment contains a multitude of computers (col 1 lines 12-14) and programs (col 1 lines 22-24). Data is supplied to and from the computers and servers (col 1 lines 44-52). Therefore it would have been obvious to one having ordinary skill in the art and the teachings of Bookman before them at the time the present invention was made to apply the known technique of a network of computers and a server and passing of information between them, taught by Bookman, improve the similar device taught by Bookman above to yield the predictable result of expanding Bookman's device above to further contain a plurality of instructions executable on a plurality of computer systems and configured to execute a plurality of commands on a plurality of business applications according to the data structures and methods of Bookman above.

Claim 22: <u>Bookman</u> discloses a computer-readable medium as in claim 20 above, and further disclose that zero or more occurrences of the command elements are nested within the execute element. <u>Bookman</u> discloses that a command element is nested within the execute element, therefore, the command elements, when they do occur

Art Unit: 2175

(one), are nested within the execute element and, when they do not occur (zero), occur nowhere (col 3 lines 61-67, col 4 lines 1-12).

Claim 23: <u>Bookman</u> discloses the computer-readable medium as in claim 20 above, but do not specifically disclose that only one command element is nested within the execute element. However, <u>Bookman</u> does disclose a command element nested within the execute element (col 3 lines 61-67, col 4 lines 1-12). Therefore, it would have been obvious to one of ordinary skill in the art at the time the present invention was made to include only one command element within the execute element. One would have been motivated to only include one command element when only one command element was needed, in order to save processing time and increase the efficiency and speed with which the processor operates.

7. Claims 1-8, 10-19, and 25-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over London et al. (US 5,831,609), previously presented as London, in view of Hallberg et al., "Using Microsoft Excel 97", published by Que Corporation, copyright 1997 Que Corporation, previously presented as "Hallberg".

Claim 1: London discloses a method compromising:

providing information relating to a business application (col 2 lines 60-63: "host computer executes application programs") in a server system (col 3 lines 31-32: "the host computer is connected to the X-Terminals"), comprising:

receiving a request (col 3 lines 31-49 "network"), wherein

the request is configured to cause the business application to execute a command, represented by a command block, of the business application (col 5 lines 6-7: "when the API command is window management related").

the request comprises an indication of a user interface element,
represented by the command block, to be returned (col 4 lines 55-67),
generating a data element by causing the business application to execute the
command (col 6 lines 27 "character string Hello");

generating the user interface element to be returned in response to the request (col 6 lines 17-18 "ShowWindow API"), wherein the user interface element is configured according to the command block (col 6 line 27 "Hello", the Hello data is rendered); and

sending a response comprising user interface element and the data element (col 5 lines 65-67, col 6 line 1).

While <u>London</u> does not explicitly disclose that the command comprises an execute, command, and argument element and further that the command element is a predefined query, <u>London</u> does disclose the use of "MICROSOFT EXCEL" (col 2 line 62), and further discloses that the "Hello" UI element is to be rendered on the display, i.e. the data element of "Hello" is combined with a "render" argument and then executed to output the displayed "Hello" (col 6 lines 25-29). <u>Hallberg</u> discloses that Microsoft Excel is a spreadsheet program with database functionality (page 383: "Building Excel Databases"). This functionality includes the ability to selectively filter

list results (page 394: "AutoFilter"), i.e. query the database ("command element" to return ("execute element") results based on a predefined filter ("argument element") to be displayed ("argument element"). Therefore, it would have been obvious to one having ordinary skill in the art and the teachings of London and Hallberg before them at the time the present invention was made, to use the business application Microsoft Excel, complete with the database functionality and querying, in the business application interface server system disclosed by London. One would have been motivated to allow a user to use Microsoft Excel, in particular the database functionality of Excel, in order to better manage data, as suggested by Hallberg (page 383: "organizing your data").

London and Hallberg disclose method as above, but do not specifically disclose that the generated user interface and data elements are XML documents specified by XSLT stylesheets. However, London does disclose the use of the X-Protocol to generate an output. One of ordinary skill in the art at the time the present invention was made would know to that what is written one programming language can also be written in another programming language such as C, C++, HTML, JavaScript, X-Protocol, XML, WML, etc. Therefore, it would have been obvious to one of ordinary skill in the art at the time the present invention was made to generate the output in XML format, and to specify the presentation of a class of XML documents using XSLT stylesheets. One would have been motivated to do this in order to have a result more compatible with web-based applications.

Art Unit: 2175

Claim 8: <u>London</u> discloses a method in a server system for providing application information, the method compromising:

providing transforms for transforming output of the business application, each transform having a name (col 7 lines 16-30);

receiving from a client system a request to cause a business application to execute a command, represented by a command block, (col 4 lines 48-53), the request comprises an indication of a user interface element, represented by the command block, to be returned (col 4 lines 55-67), the request optionally indicating the name of a transform to be applied to the output of the application (col 7 lines 16-30);

generating a data element by causing the business application to execute the command (col 6 lines 27 "character string Hello");

executing the command of the application to generate the user interface element output (col 5 lines 22-31) according to the command block (col 6 line 27 "Hello", the Hello data is rendered);

generating a generated output comprising the data element and the user interface element (col 6 line 27 "Hello", the hello data is rendered with the user interface element);

when the request indicates the name of a transform,

generating a transformed output by applying the provided transform with the indicated name to the generated output (col 7 lines 10-30); and otherwise, sending to the client system the generated output (col 7 lines 10-30).

Art Unit: 2175

While London does not specifically disclose that the command comprises an execute, command, and argument element and further that the command element is a predefined query, London does disclose the use of "MICROSOFT EXCEL" (col 2 line 62), and further discloses that the "Hello" UI element is to be rendered on the display, i.e. the data element of "Hello" is combined with a "render" argument and then executed to output the displayed "Hello" (col 6 lines 25-29). Hallberg discloses that Microsoft Excel is a spreadsheet program with database functionality (page 383; "Building Excel Databases"). This functionality includes the ability to selectively filter list results (page 394: "AutoFilter"), i.e. query the database ("command element" to return ("execute element") results based on a predefined filter ("argument element") and displaying the output ("argument element"). Therefore, it would have been obvious to one having ordinary skill in the art and the teachings of London and Hallberg before them at the time the present invention was made, to use the business application Microsoft Excel, complete with the database functionality and querying, in the business application interface server system method disclosed by London. One would have been motivated to allow a user to use Microsoft Excel, in particular the database functionality of Excel, in order to better manage data, as suggested by Hallberg (page 383: "organizing your data").

London and Hallberg disclose method as above, but do not specifically disclose that the requests and outputs are XML documents specified by XSLT stylesheets.

However, London does disclose the use of the X-Protocol to generate an output.

One of ordinary skill in the art at the time the present invention was made would

Art Unit: 2175

know to that what is written one programming language can also be written in another programming language such as C, C++, HTML, JavaScript, X-Protocol, XML, WML, etc. Therefore, it would have been obvious to one of ordinary skill in the art at the time the present invention was made to generate the output in XML format, and to specify the presentation of a class of XML documents using XSLT stylesheets. One would have been motivated to do this in order to have a result more compatible with web-based applications.

Claim 25: <u>London</u> discloses a method in a server system for providing application information, the method comprising:

receiving a request (col 3 lines 31-49 "network") to cause a business application to execute a command, represented by a command block (col 4 lines 48-53), wherein the request comprises an indication of a user interface element, represented by the command block, to be returned (col 4 lines 55-67),

the request is received from a client system (col 5 lines 65-67, col 6 line 1),

the command block indicates a user interface element (col 4 lines 53-67) and a data element (col 6 lines 21-22: "requests the painting of the text Hello on the screen") to be returned as results of execution of the command;

generating the data element by causing the business application to execute the command (col 6 line 27: "character string Hello");

Art Unit: 2175

when the command indicates to return at least one user interface element (col 5 lines 53-56),

generating the at least one user interface element to be returned; and sending a first response to the client system a response that comprises the at least one user interface element and the data element (col 5 lines 65-67, col 6 line 1); and otherwise (col 5 lines 48-52).

sending a second response to the client system comprising the generated data element without user interface element (col 5 lines 65-67, col 6 line 1).

While <u>London</u> does not specifically disclose that the command comprises an execute, command, and argument element and further that the command element is a predefined query, <u>London</u> does disclose the use of "MICROSOFT EXCEL" (col 2 line 62), and further discloses that the "Hello" UI element is to be rendered on the display, i.e. the data element of "Hello" is combined with a "render" argument and then executed to output the displayed "Hello" (col 6 lines 25-29). <u>Hallberg</u> discloses that Microsoft Excel is a spreadsheet program with database functionality (page 383: "Building Excel Databases"). This functionality includes the ability to selectively filter list results (page 394: "AutoFilter"), i.e. query the database ("command element" to return ("execute element") results based on a predefined filter ("argument element") and display the output ("argument element"). Therefore, it would have been obvious to one having ordinary skill in the art and the teachings of <u>London</u> and <u>Hallberg</u> before them at the time the present invention was made, to use the business

Art Unit: 2175

application Microsoft Excel, complete with the database functionality and querying, in the business application interface server system method disclosed by <u>London</u>. One would have been motivated to allow a user to use Microsoft Excel, in particular the database functionality of Excel, in order to better manage data, as suggested by <u>Hallberg</u> (page 383: "organizing your data").

London and Hallberg disclose method as above, but do not specifically disclose that the requests and outputs are XML documents specified by XSLT stylesheets. However, London does disclose the use of the X-Protocol to generate an output. One of ordinary skill in the art at the time the present invention was made would know to that what is written one programming language can also be written in another programming language such as C, C++, HTML, JavaScript, X-Protocol, XML, WML, etc. Therefore, it would have been obvious to one of ordinary skill in the art at the time the present invention was made to generate the output in XML format, and to specify the presentation of a class of XML documents using XSLT stylesheets. One would have been motivated to do this in order to have a result more compatible with web-based applications.

Claims 11 and 12: <u>London</u> discloses a method in a server system for providing information relating to a business application, the method comprising:

providing a default format for output of the business application (col 6 lines 63-

65);

receiving from a client system a request to cause a business application to execute a command, wherein the command is represented by a command block (col 4 lines 48-53), the request comprises an indication of a user interface element, represented by the command block, to be returned (col 4 lines 55-67), the command block optionally indicating a user agent format or a client-specified format for the output of the business application (col 6 lines 56-58):

generating a data element by cuasing the business application to execute the command (col 6 lines 27 "character string Hello");

generating the user interface element to be returned in response to the request (col 6 lines 17-18 "ShowWindow API"), wherein the user interface element is configured according to the command block (col 6 line 27 "Hello", the Hello data is rendered); and

generating a generated output comprising the data element and the user interface element (col 6 line 27 "Hello", the hello data is rendered with the user interface element); and

sending the generated the output in the selected format to the client system (col 5 lines 22-31).

While <u>London</u> does not specifically disclose that the command comprises an execute, command, and argument element and further that the command element is a predefined query, <u>London</u> does disclose the use of "MICROSOFT EXCEL" (col 2 line 62), and further discloses that the "Hello" UI element is to be rendered on the

display, i.e. the data element of "Hello" is combined with a "render" argument and then executed to output the displayed "Hello" (col 6 lines 25-29). Hallberg discloses that Microsoft Excel is a spreadsheet program with database functionality (page 383: "Building Excel Databases"). This functionality includes the ability to selectively filter list results (page 394: "AutoFilter"), i.e. query the database ("command element" to return ("execute element") results based on a predefined filter ("argument element") and display the output ("argument element"). Therefore, it would have been obvious to one having ordinary skill in the art and the teachings of London and Hallberg before them at the time the present invention was made, to use the business application Microsoft Excel, complete with the database functionality and querying, in the business application interface server system method disclosed by London.

One would have been motivated to allow a user to use Microsoft Excel, in particular the database functionality of Excel, in order to better manage data, as suggested by Hallberg (page 383: "organizing your data").

London and Hallberg disclose method as above, but do not specifically disclose that the requests and outputs are XML documents specified by XSLT stylesheets.

However, London does disclose the use of the X-Protocol to generate an output.

One of ordinary skill in the art at the time the present invention was made would know to that what is written one programming language can also be written in another programming language such as C, C++, HTML, JavaScript, X-Protocol, XML, WML, etc. Therefore, it would have been obvious to one of ordinary skill in the art at the time the present invention was made to generate the output in XML format,

Art Unit: 2175

and to specify the presentation of a class of XML documents using XSLT stylesheets. One would have been motivated to do this in order to have a result more compatible with web-based applications.

Claims 2 and 26: <u>London</u> and <u>Hallberg</u> disclose the remote business application server system method as in claims 1 and 26 above respectively, and <u>London</u> further discloses wherein the argument element of the command indicates a type of user interface element to return (col 4 lines 5-6).

Claims 3 and 27: London and Hallberg disclose the remote business application server system method as in claims 1 and 26 above respectively, but do not specifically disclose that the argument element of the command indicates a type of user interface element to not return. However, London does disclose the request indicating a type of user interface element to return (col 4 lines 5-6). Therefore, it would have been obvious to one of ordinary skill in the art at the time the present invention was made that if one could return types of elements, one could also not return those elements. One would have been motivated to not return these elements in order to provide the server system with only specific elements, thereby limiting the amount of processes required and raising the efficiency of the processor.

Claims 4 and 28: London and Hallberg disclose the remote business application server system method as in claims 3 and 27 above respectively, but do not specifically disclose that the type of user interface element to not return is navigation data.

However, one of ordinary skill in the art at the time the present invention was made would know that user interface elements of typical applications include menu bars,

Art Unit: 2175

toolbars, backgrounds, colors, forms, shapes, navigational information, etc. Therefore, it would have been obvious one of ordinary skill in the art at the time the present invention was made to not return one of these elements. One would have been motivated to not return these elements in order to provide the server system with only specific elements, thereby limiting the amount of processes required and raising the efficiency of the processor.

Claims 5 and 29: London and Hallberg disclose the remote business application server system method as in claims 1 and 25 above respectively, and London further discloses wherein the argument element of the command comprises an "SWEDataOnly" argument, that is, when this argument is TRUE only data elements are returned and when this argument is FALSE both data and user interface elements are returned (col 5 lines 40-60).

Claims 6 and 30: <u>London</u> and <u>Hallberg</u> disclose the remote business application server system method as in claims 1 and 25 above respectively, and <u>London</u> further discloses wherein the argument element of the command includes a "SWEExclude" argument (col 5 lines 40-60).

Claims 7 and 31: London and Hallberg disclose the remote business application server system method as in claims 1 and 25 above respectively, and Hallberg further discloses the ability of Microsoft Excel to selectively filter database information using predefined queries (page 394). Therefore, it would have been obvious to one having ordinary skill in the art and the teachings of London and Hallberg before them at the time the present invention was made, to receive a predefined query, as taught by Hallberg, in the

Art Unit: 2175

business application method of <u>London</u> and <u>Hallberg</u>. One would have been motivated in order to provide a user with information pertinent to them, as suggested by <u>Hallberg</u> (page 394 paragraph 1).

Claim 10: London and Hallberg disclose the remote business application server system method as in claim 8 above, and London further discloses wherein the argument element of the command includes a "SWEXsIStyleSheet" argument (col 5 lines 40-60).

Claim 13: <u>London</u> and <u>Hallberg</u> disclose the remote business application server system method as in claim 11 above, and <u>London</u> further discloses the user-agent format being based on a type of user agent specified in the request (col 2 lines 60-64).

Claim 14: London and Hallberg disclose the remote business application server system method as in claim 13 above, but do not specifically disclose that the type of user agent specified is a type of browser. However, London discloses the host application that the user wishes to use being "MICROSOFT EXCEL" or "WORD FOR WINDOWS" (col 2 lines 60-64). Therefore, it would have been obvious to one of ordinary skill in the art at the time the present invention was made that London's list of host applications could be expanded to include programs such as "MICROSOFT POWERPOINT" or "MICROSOFT INTERNET EXPLORER", the later being a web browser. One would be motivated to include these in order to provide the remote user with more options for applications to run in their native GUI system.

Claims 15-18: <u>London</u> and <u>Hallberg</u> disclose the remote business application server system method as in claim 11 above, but do not specifically disclose the formats being

Art Unit: 2175

a markup language. However, <u>London</u> does disclose the use of the X-Protocol to generate an output (col 5 line 25-26). One of ordinary skill in the art at the time the present invention was made would know that what is written one programming language can also be written in another programming language such as C, C++, HTML, JavaScript, X-Protocol, XML, WML, etc. One would have been motivated to use a markup language in order to have a result more compatible with web-based applications.

Claim 19: London and Hallberg disclose the remote business application server system method as in claim 11 above, but do not specifically disclose the request including a "SWESetMarkup" argument that specifies the client-specified format as being XML, HTML, or WML. However, London does disclose the use of the X-Protocol to generate an output (col 5 line 25-26) as well disclosing the host application that the client wishes to use being "MICROSOFT EXCEL" or "WORD FOR WINDOWS" (col 2 lines 60-64). One of ordinary skill in the art at the time the present invention was made would realize that London's list of host applications could be expanded to include programs such as "MICROSOFT POWERPOINT" or "MICROSOFT INTERNET EXPLORER", the later being a web browser. In the case of "MICROSOFT INTERNET EXPLORER" being the application the client wishes to use, it would have been obvious to one of ordinary skill in the art at the time of the present invention that the original programming could be written in a more web-friendly language such as HTML, XML, WML, or JavaScript. One would be motivated to do this in order to provide the client system with more selection in

applications to use, as well as providing a result that is more compatible in the case of web-based applications.

 Claim 24 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bookman in view of Hallberg.

Claim 24: <u>Bookman</u> discloses a computer-readable medium containing: instructions executable on a computer system, configured to execute a command, represented by a command block, of a business application; and

a data structure defining the command block, wherein the command block is outbound to a web server and the web server is configured to execute on the computer system (col 3 lines 61-62: "Web server environment, containing conventional objects", col 4 lines 12-13: "back to requesting Web browser"), the data structure comprising:

an application element (col 1 lines 56-57: "CGI is a standard interface for running external programs on a Web server.", col 3 lines 62-63: "an object") having a name attribute (col 3 lines 65-66: "each object has an attribute associated with it that identifies the type of object");

a navigation element nested within the application element, having a name attribute (col 4 lines 6: "based on the object request URL").

<u>Bookman</u> does not specifically disclose that the navigation element has sub-elements from a set comprising a menu element, tool bar element, screen bar element, thread bar element, view bar element, and page item element. <u>Bookman</u> does disclose "Web browsers" (col 1 lines 36-44). It would have been obvious to one of ordinary skill in the

Art Unit: 2175

art at the time the present invention was made that "Web browsers" include: menus, tool bars, screen bars, view bars, etc. One would have been motivated to disclose the navigation element having these standard browser sub-elements in order to allow the user greater flexibility in the browser they chose to use.

While Bookman discloses one or more elements from the set of elements including an argument element to configured to indicate whether the response should include user interface elements (col 4 line 7: "an HTML file"), Bookman does not specifically disclose one or more elements from the set of elements including a screen element, an applet element, and a form element, the one or more elements being nested within the application element and each having a name attribute. However, Bookman do disclose Web browsers requesting particular hypermedia documents (col 1 lines 45-67, col 2 lines 1-8). Therefore, it would have been obvious to one of ordinary skill in the art at the time the present invention was made to allow applet scripts, forms, and URL queries to be nested within the web browser. One would have been motivated to do this in order to provide dynamic hypermedia to an end-user, thereby increasing the user interactivity. Bookman does not specifically disclose that the data structure is an XML document. However, Bookman do disclose the use of object requests from Web server executables (col 4 lines 2-3) and the use of HTML (col 4 lines 45-60). Therefore, it would have been obvious to one of ordinary skill in the art at the time the present invention was made that the data structure to be used in a Web based situation could also be written in XML, WML, HTML, JavaScript, CGI Script, etc. One would be

Art Unit: 2175

motivated to write it in XML in order to benefit from a more database oriented programming language.

Bookman does not specifically disclose a predefined query bar element nested within the application element. Hallberg discloses that Microsoft Excel is a spreadsheet program with database functionality (page 383: "Building Excel Databases"). This functionality includes the ability to selectively filter list results, i.e. query the database to return results based on a predefined filter, used in bars (page 394; "AutoFilter", Fig. 14.9). Further, Hallberg discloses that Microsoft Excel files can be opened using a web browser (page 638: "The file will open within Internet Explorer, and you can edit it just as if you had opened it in Excel directly.") Therefore, it would have been obvious to one having ordinary skill in the art and the teachings of Bookman and Hallberg before them at the time the present invention was made, to use the business application Microsoft Excel, complete with the database functionality and predetermined query bars, in the business application interface server system disclosed by Bookman. One would have been motivated to allow a user to use Microsoft Excel while in a web browser, in particular the database functionality of Excel, in order to better manage data, as suggested by Hallberg (page 383: "organizing your data").

Bookman further discloses that the web server environment contains a multitude of computers (col 1 lines 12-14) and programs (col 1 lines 22-24). Data is supplied to and from the computers and servers (col 1 lines 44-52). Therefore it would have been obvious to one having ordinary skill in the art and the teachings of Bookman and Hallberg before them at the time the present invention was made to apply the known

Art Unit: 2175

technique of a network of computers and a server and passing of information between them, taught by Bookman, improve the similar device suggested by Bookman and Hallberg above to yield the predictable result of expanding Bookman and Hallberg's device above to further contain a plurality of instructions executable on a plurality of computer systems and configured to execute a plurality of commands on a plurality of business applications according to the data structures and methods of Bookman and Hallberg above.

Response to Arguments

Applicant's arguments filed May 4, 2009 have been fully considered but they are not persuasive.

Applicant alleges, with respect to claims 20 and 22-24 (pages 11-14), that "Bookman fails to teach or contemplate, at the very least, 'an argument element for indicating whether the response should include user interface elements.' Applicants submit that the cited passages of Bookman fail to disclose any options allowing for the inclusion or exclusion of indicated user interface elements." Applicant further argues, on page 13, that the format of data is entirely different than how a user interface will present the data. However, the examiner notes that the limitation in place recites only that the argument element indicates whether the response should include user interface elements and not how the user interface element will present the data. As such, the HTML file of Bookman clearly includes whether or not the object will be presented, i.e.

Art Unit: 2175

whether or not a UI element will be included by argument. The argument is not persuasive.

Applicant alleges, with respect to claims 1, 8, 11 and 25 (pages 14-18), that neither London, Bookman or Hallberg teach or suggest, "generating the user interface element, wherein the user interface element is configured according to the argument element." Applicant further submit that the cited passages of London fail to disclose any options relating to the configurability of the user interface elements. The examiner notes that the language used in the claims, specifically regarding the "argument" limitation, is broad. There is no language in the claim relating options of configurability to the user interface elements are generated according to an argument element. As such, the argument element can be broadly interpreted to include a "render" argument, as shown by London and discussed in the rejections of claims 1, 8, 11 and 25 above.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANDREW TANK whose telephone number is (571)270-1692. The examiner can normally be reached on Mon-Thur 9am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Bashore can be reached on (571)272-4088. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/714,730 Page 24

Art Unit: 2175

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/A. T./ Examiner, Art Unit 2175 July 11, 2009

> /William L. Bashore/ Supervisory Patent Examiner, Art Unit 2175